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CA 2235818 C 2002/03/12

(11)(21) **2 235 818**

(12) **BREVET CANADIEN
CANADIAN PATENT**

(13) C

(22) Date de dépôt/Filing Date: 1998/04/24

(41) Mise à la disp. pub./Open to Public Insp.: 1998/10/28

(45) Date de délivrance/Issue Date: 2002/03/12

(30) Priorité/Priority: 1997/04/28 (847,707) US

(51) Cl.Int.⁶/Int.Cl.⁶ G02C 9/00, G02C 7/08

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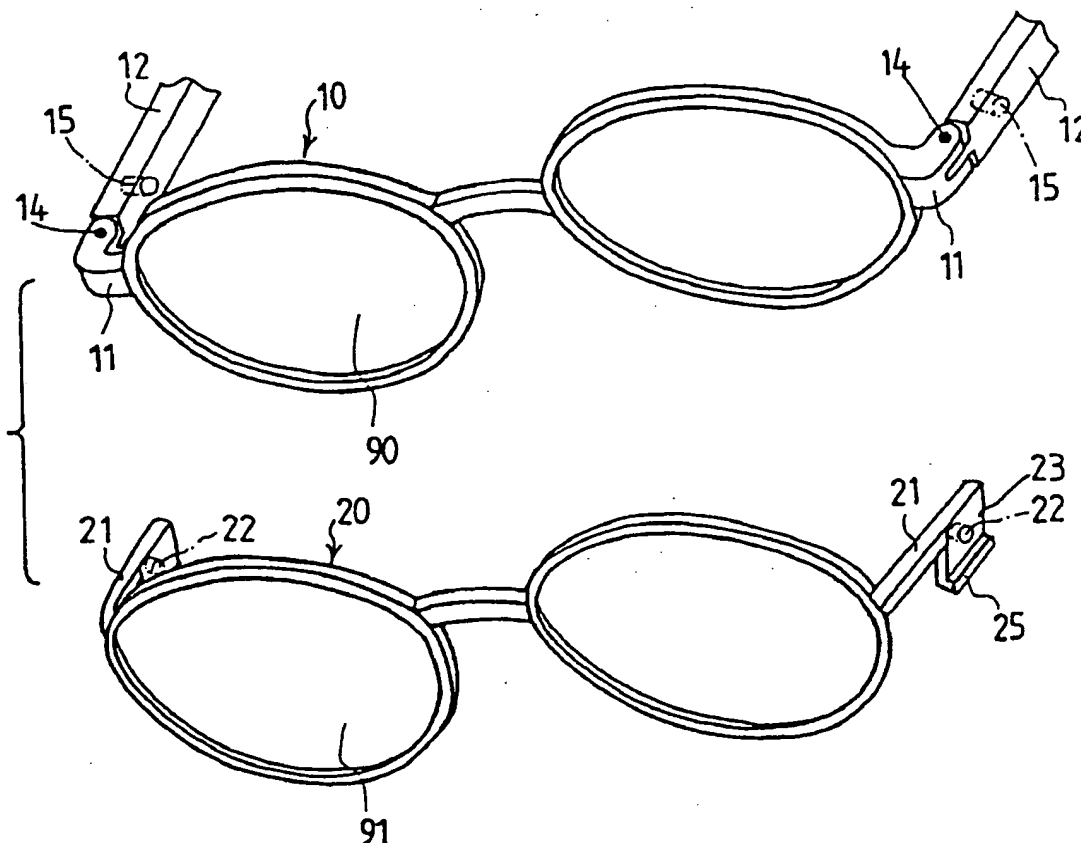
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(54) Titre : LUNETTES COMPORTANT UNE MONTURE SECONDAIRE

(54) Title: EYEGLASS MECHANISM HAVING AUXILIARY FRAME



(57) Abrégé/Abstract:

An eyeglass mechanism includes a primary frame having two side studs for pivotally coupling two legs. An auxiliary frame for disposing in front of the primary frame includes two sides each having an extension for engaging over the stud. The extensions each may include a magnet for engaging with another magnet engaged in the leg or with the magnetic leg and for securing the auxiliary frame to the primary frame. The extensions each includes a hook for securing to the legs without the magnets.

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TITLE: EYEGLOSS MECHANISM HAVING AUXILIARY FRAME

BACKGROUND OF THE INVENTION

1. Field of the Invention

05 The present invention relates to a pair of eyeglasses, and more particularly to a pair of eyeglasses having an auxiliary frame for supporting auxiliary lenses.

2. Description of the Prior Art

10 The closest prior art of which applicant is aware is US Patent 5,568,207 to Chao and has been assigned to the present assignee. The auxiliary frame may not be engaged with the legs.

15 The present invention has arisen to provide a novel configuration for securing the auxiliary frame to the primary frame.

SUMMARY OF THE INVENTION

20 The primary objective of the present invention is to provide an eyeglass mechanism in which the legs of the primary frame each includes a magnet for engaging with a hook and/or a magnet of the auxiliary frame for solidly and stably securing the auxiliary frame to the primary frame.

25 The other objective of the present invention is to provide an eyeglass mechanism in which the extensions of the auxiliary frame each includes a hook member for solidly securing the auxiliary frame to the primary without the magnets.

In accordance with one aspect of the invention, there is provided an eyeglass mechanism comprising an eyeglass mechanism comprising a primary frame including two sides each having a stud, two legs pivotally coupled to the studs respectively, an auxiliary frame for disposing in front of the primary frame, the auxiliary frame including two sides each having an extension for extending over the stud and for engaging with the leg, and means for securing the extensions to the legs and for securing the auxiliary frame to the primary frame.

The legs are made of magnetic material, the securing means includes two magnets engaged in the extensions for engaging with the legs and for securing the auxiliary frame to the primary frame.

The extensions each includes an ear extended downward for supporting the securing means.

The securing means includes two first magnets secured in the legs and includes two second magnets secured in the extensions for engaging with the first magnets and for securing the auxiliary frame to the primary frame.

The securing means includes a pair of hooks provided in the extensions for engaging with the legs and for securing the auxiliary frame to the primary frame.

The hooks each includes an ear extended downward

from the extension and each includes a projection laterally extended outward for engaging with the legs.

Further objectives and advantages of the present invention will become apparent from a careful reading
05 of a detailed description provided hereinbelow, with appropriate reference to accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of an eyeglass mechanism having an auxiliary frame in accordance with
10 the present invention;

FIG. 2 is a perspective view of the eyeglass mechanism; and

FIG. 3 is a cross sectional view taken along lines 3-3 of FIG. 2.

15 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings, and initially to FIGS. 1 and 2, an eyeglass mechanism in accordance with the present invention comprises a primary frame 10 for supporting primary lenses 90 and including two studs 11
20 formed in the side portions. Two legs 12 each is pivotally coupled to the studs 11 at a pivot shaft 14 and each includes a magnet 15 secured close to the pivot shaft 14. An auxiliary frame 20 for supporting auxiliary lenses 91 and for disposing in front of the
25 primary frame includes two extensions 21 disposed in the side portions and extended rearward for engaging over the studs 11 of the primary frame 10 respectively.

The extensions 21 each includes a magnet 22 for engaging with the magnet 15 of the stud 11 and for securing the auxiliary frame 20 to the primary frame 10.

05 It is preferable that the extensions 21 each includes an ear 23 extended downward for engaging with the magnets 22 and for allowing the magnets 22 to be aligned with the magnets 15 of the studs 11. It is further preferable that the ears 23 each includes a rib
10 or a projection 25 laterally extended downward (FIGS. 1 and 3) for forming a hooking member and for solidly engaging with the leg 12 and for solidly securing the auxiliary frame 20 to the primary frame 10. The ears 23 and the projections 25 may solidly secure the
15 extensions 21 to the primary frame 10 without the magnets 15, 22.

 Alternatively, when the legs 12 are made of magnetic material, such as metal, the magnets 22 may also engage with the legs 12 for securing the auxiliary
20 frame to the primary frame without the magnets 15.

 Accordingly, the eyeglass mechanism in accordance with the present invention includes a primary frame having two magnets secured in the legs for engaging with the magnets of the auxiliary frame and for solidly
25 and stably securing the auxiliary frame to the primary frame. The extensions of the auxiliary frame may each include a hook member for solidly securing the

auxiliary frame to the primary without the magnets.

Alternatively, the extensions 21 may be engaged with the outer portions of the legs 12, and the projections 25 may be extended laterally inward for
05 engaging with the bottom of the legs 12.

Although this invention has been described with a certain degree of particularity, it is to be understood that the present disclosure has been made by way of example only and that numerous changes in the detailed
10 construction and the combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as hereinafter claimed.

I CLAIM:

1. An eyeglass mechanism comprising:

a primary frame including two sides each having a stud,

two legs pivotally coupled to said studs
05 respectively

an auxiliary frame for disposing in front of said primary frame, said auxiliary frame including two sides each having an extension for extending over said stud and for engaging with said leg, and

10 means for securing said extensions to said legs and for securing said auxiliary frame to said primary frame.

2. An eyeglass mechanism according to claim 1, wherein said legs are made of magnetic material, said securing means includes two magnets engaged in said extensions for engaging with said legs and for securing
05 said auxiliary frame to said primary frame.

3. An eyeglass mechanism according to claim 1, wherein said extensions each includes an ear extended
03 downward for supporting said securing means.

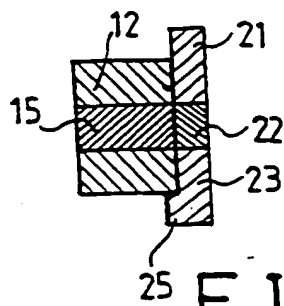
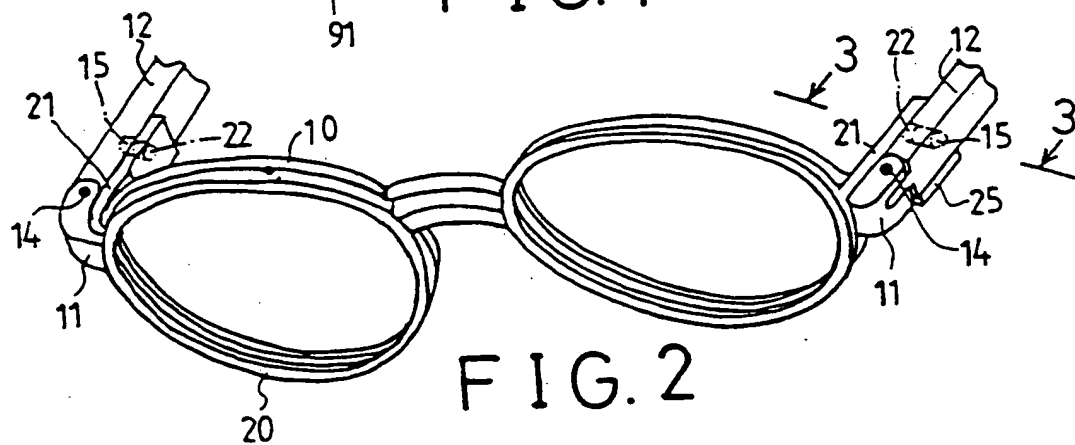
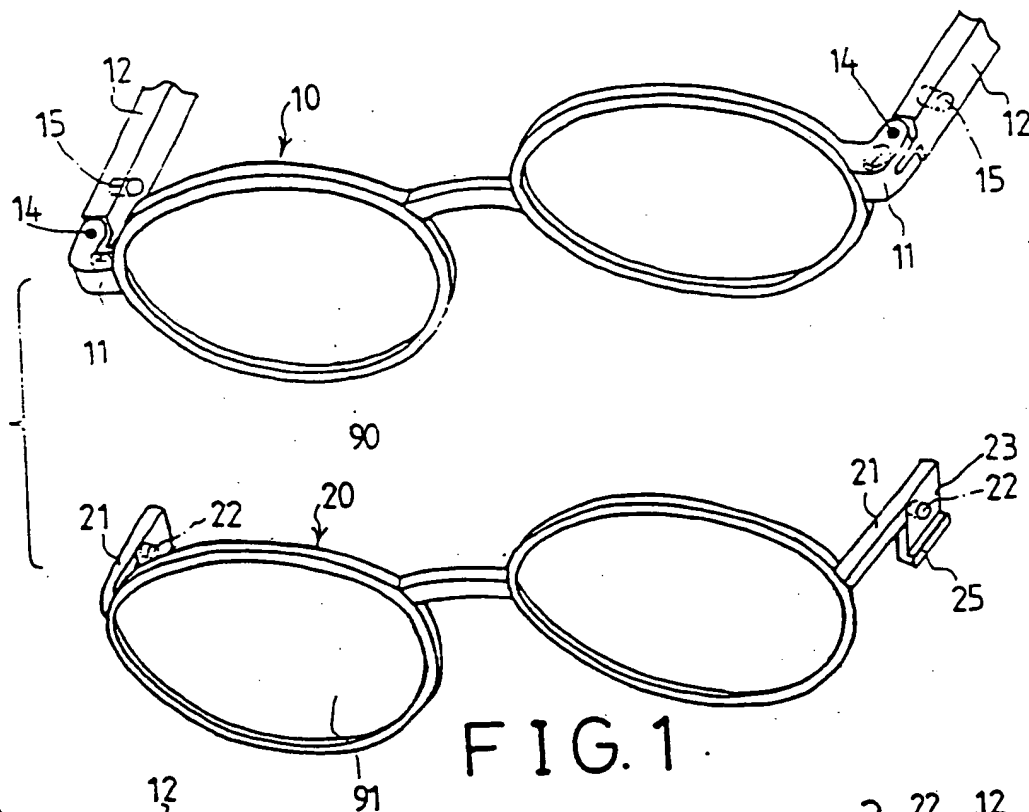
4. An eyeglass mechanism according to claim 1, wherein said securing means includes two first magnets secured in said legs and includes two second magnets secured in said extensions for engaging with said first
05 magnets and for securing said auxiliary frame to said primary frame.

5. An eyeglass mechanism according to claim 1,
wherein said securing means includes a pair of hooks
provided in said extensions for engaging with said legs
and for securing said auxiliary frame to said primary
05 frame.

6. An eyeglass mechanism according to claim 5,
wherein said hooks each includes a ear extended
downward from said extension and each includes a
projection laterally extended outward for engaging with
05 said legs.

ABSTRACT OF THE DISCLOSURE

An eyeglass mechanism includes a primary frame having two side studs for pivotally coupling two legs. An auxiliary frame for disposing in front of the primary frame includes two sides each having an extension for engaging over the stud. The extensions each may include a magnet for engaging with another magnet engaged in the leg or with the magnetic leg and for securing the auxiliary frame to the primary frame. The extensions each includes a hook for securing to the legs without the magnets.



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